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# CRUNCH 217B

*All BLACK line Crunch radar-detectors are made on the basis of the newest SAMSUNG microprocessors, which makes possible to significantly decrease percentage of false alarms*

## OPERATION MANUAL

VG2, X-, K-, Superwide Ka-Band  
Radar and Laser detector

# CONGRATULATIONS!

You have acquired the CRUNCH 217B, the newest radar/laser detector.

The CRUNCH 217B incorporates the advanced new antenna technology and extremely low power-consuming circuitry to ensure top-class performance.

The CRUNCH 217B is a complete integrated laser/radar detector, which detects all police radar guns, including Ultra-X and Ultra-K pulse mode radars, as well as laser guns.

Besides, CRUNCH 217B is able to detect signals of VG-2 (devices detecting radar-detectors).

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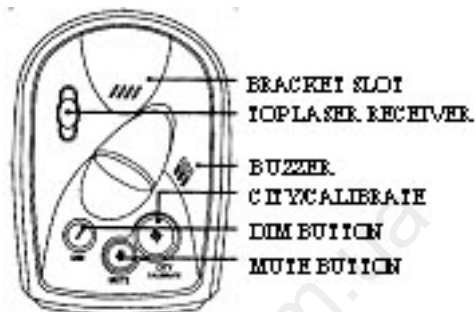
## PACKAGE CONTENTS

Your CRUNCH 217B package includes the following components:

- The CRUNCH 217B radar/laser detector
- Coiled 12-volt DC power cord
- Windshield mounting bracket with 3pcs suction cups

- Dashboard mounting hook and loop fasteners (1ea)
- Operation manual

## IDENTIFYING PARTS OF THE UNIT



Compass  
periscope

Detector  
display



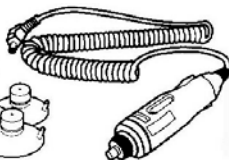
Radar receiver  
Front Laser



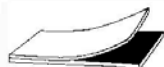
Mounting bracket



Suction cups



Power cord



Hook-and-loop  
fastener

# BASIC FEATURES

- protection against all radar bands (X, K, and superwide Ka)
- 360° laser coverage against all laser guns
- invisible to all radar detector sensing devices (VG-2 and Specter)
- POP™ Mode and PULSE signal Detection capabilities
- four separate modes: Highway1(H1) - Highway2(H2) - City1(C1) - City2(C2) to eliminate false radar alerts
- user selectable brightness and mute on/off
- Volume control wheel with power on/off switch
- LED-BACKLIT text display
- tutorial mode to demonstrate operations
- memory to retain previously set operational modes after power-off
- corded power connection into 12-volt car lighter socket

## INSTALLING THE UNIT

### Mounting guidelines

The CRUNCH 217B can be mounted on your windshield or dashboard using the mounting bracket or hook and loop fastener provided.

- Mount on the windshield in a centered location that will not obstruct the view of the driver and is within reach, so the buttons can be easily accessed.
- Do not mount behind windshield wipers, metal surfaces, ornaments, or mirrored sunscreen glass, as these affect radar/laser signals. Tinted glass does not affect radar/laser signal reception.

*Conceal the CRUNCH 217B when you leave your vehicle to prevent theft and to minimize the unit's exposure to extreme temperatures, which can temporarily impair performance.*

## **Windshield mounting**

1. Install the suction cups onto the windshield mounting bracket by sliding them into their holes (if not pre-installed).
2. Press the bracket base firmly against the windshield until the suction cups securely take hold.
3. Slide the unit up to the bracket until the bracket arms click into the slots on both sides of the unit.
4. Bend the angle of the windshield mounting bracket, if necessary, to adjust for best viewing and detection angle.
5. When you want to connect power from your vehicle, plug the small connector of the power cord into the 12-voltDC power input jack located on the side of the detector.
6. Plug the large adapter of the power cord into the lighter socket of your vehicle.



## **Dashboard mounting**

1. Select an area relatively level, clean, and dry. Adhere one part of the enclosed hook-and-loop fastener to this area and the other part to the bottom of the unit.
2. Fasten the unit to the area by placing the hook-and-loop pieces together.

## **Connecting the Power**

The detector is designed to operate on most DC12V negative ground vehicle electrical systems. The power cord provided with the detector has a cigarette lighter socket plug at one end and a small connector at the other.

1. Insert the small connector into the jack on the side of the detector.

2. Insert the other end into the cigarette lighter socket of your vehicle.

If the detector does not operate when you turn it on, remove the adapter from the cigarette lighter socket and carefully check the socket for debris. Also, check the fuse in the adapter and your vehicle's fuse box.

## Replacing the Fuse

If the detector CRUNCH stops operating, the fuse in the cigarette lighter plug might be blown. If it has blown, follow these steps to replace it:

1. To replace the fuse, unscrew the top of the plug.



2. Remove the fuse and check the fuse to see if it has blown. If it has, replace it.

## RADAR OPERATION

### Power & Volume control

Plug the adapter of the provided 12V DC power cord into the lighter of your vehicle, and plug the small connector at the other end of the 12V DC power cord into the power jack of your detector. This will send power to the detector when your vehicle is running. To turn on the detector, rotate the wheel

controller (located on the side of the detector) until you hear it click. To turn off the detector, rotate the wheel controller in the opposite direction until it clicks again. You can also use the controller to adjust the volume level by turning it up or down within the range that it does not click.

## Brightness Control

Press **DIM** repeatedly to toggle between 4 different display brightness levels: **BRIGHT - DIM - DIMMER - DARK**

When signals are detected, alerts are always displayed in **BRIGHT** mode.

The display returns to the previously selected brightness level after alerts disappear.

## Mute on/off selection (mute mode)

Press the **MUTE** button repeatedly for less than two seconds each time to toggle between ***mute on*** and ***mute off***.

**Mute on** will silence the audio alarm for the remainder of an existing signal and for any new alert received within 30 seconds of the last signal. Then the unit automatically resets itself to **mute off**, so the next signal threat can be received.

**Mute off** manually restores the audio alert.

*You may also adjust the audio level by using the volume thumb wheel.*

## Auto Audio Control

With AUTO AUDIO, the detector reports with reduced audio alarms for any alerts that last longer than 5 seconds. It holds the reduced audio level for any new alerts that follow within 60 seconds of the alert that turned AUTO AUDIO on.

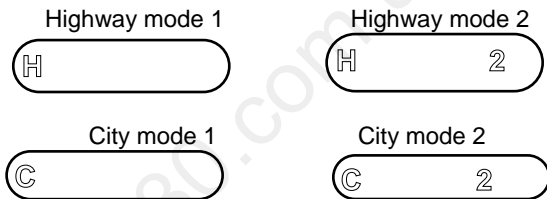


## Highway/city mode selection

Press the **CITY** button repeatedly for less than two seconds each time to toggle through four signal sensitivity modes. They are: Highway1(H1) - Highway2(H2) - City1(C1) - City2(C2). The factory default mode is H1. H2 is activated with one beep, C1 with two, C2 with three, and H1 is reset with four beeps.

The detector detects all radar band (X, K, Ka) signals at H1 and C1, while it detects only K and Ka band signals at H2 and C2. Also, it detects with full sensitivities in both highway modes and with reduced sensitivities in both city modes. It detects laser signals at all times regardless of these highway and city modes.

See following illustrations:



X-band, occupied by police radar, is also shared for other uses, such as automatic door openers like the ones used at supermarkets, burglar alarms, terrestrial microwave emission, RF braking systems, and other devices. In addition, other radar detectors in close proximity may falsely alert your detector.

## Compass Calibration

Press and hold the CALIBRATE button (= CITY button) for more than 2 seconds to access compass calibration mode. The calibration mode starts with one beep. The detector

flashes the 4 compass LEDs one after another (clockwise) until the calibration is completed.

Perform the calibration on a level surface, following these steps:

- Turn the detector on. (See Power & Volume Control.)
- Mount the detector on the windshield or the dashboard in your vehicle. (See INSTALLING THE DETECTOR.)
- Press and hold the CALIBRATE button (CITY button) until you see the detector flashing the compass LEDs clockwise, one after another.
- Drive your vehicle in two circles. The size of the circles and the direction that you drive does not matter. The circles do not need to be perfect circles but must be completed in the same direction. Each circle should take a minimum of 20 seconds but no more than 1 minute to complete.
- Press the CALIBRATE button (CITY button). The detector will end the compass calibration in two beeps and with the 4 compass LEDs flashing twice altogether. The compass screen will indicate which direction your vehicle is pointing. Calibration is now complete.

While the detector is calibrating, the front screen will remain completely blacked out.

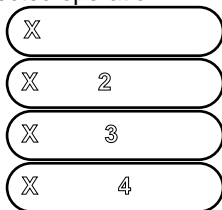
- **When to Calibrate:** The compass must be calibrated:
  - When the detector is used for the first time in a vehicle, and
  - When the detector is mounted in a new location.
- **Compass Display:** The compass periscope displays 8 cardinal points.

## Tutorial mode

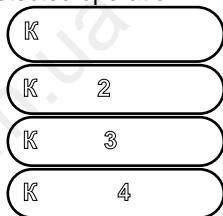
The CRUNCH 217B has a tutorial mode intended to familiarize you with the various visual displays and distinct audible alerts the unit performs. Perform the following steps to begin the tutorial mode:

1. Turn the detector on while holding the CITY button and the detector will demonstrate how it operates when each radar and laser band signal is detected. The detector demonstrates various alerts with the corresponding audio tones and levels

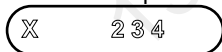
X-band Constant-On signal detected operation



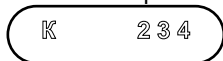
K-band Constant-On signal detected operation:



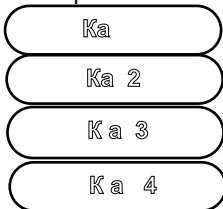
X-band Instant-On or POP signal detected operation.



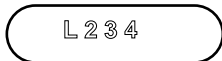
K-band Instant-On or POP signal detected operation.



Ka-band Constant-On signal detected operation.



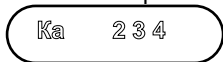
Laser band detected operation.



All LEDs on



Ka-band Instant-On or POP signal detected operation.



2. Press any button to exit the all-LEDs-on status that is the end of tutorial mode. The detector automatically enters detection mode and begins detecting signals.

Your CRUNCH 217B uses the same audio alarms and visual displays as for the tutorial mode when it detects signals and reports alerts.

## Signal Strength Meters

The numbered LEDs are called signal strength meters when they are displayed together with radar band's LEDs (X, K, or Ka) to indicate the strength of a detected signal. The higher the number, the stronger the radar signals. When the numbered LEDs are used together with H or C LED, they demonstrate the level of the highway or city mode you've set.

## CARE AND MAINTENANCE

Here are some tips to help you care for your CRUNCH 217B:

- To deter theft, remove your CRUNCH 217B from your windshield or dashboard when you leave your vehicle.
- Avoid extended exposure to direct sunlight. Remove your CRUNCH 217B from your windshield when your vehicle is parked for an extended period of time. On hot days the temperature inside your vehicle can reach levels that could damage your CRUNCH 217B.
- Do not expose the CRUNCH 217B to rain, moisture, spray cleaners, or liquids that could damage the internal circuitry of the detector.

### Fuse replacement

The lighter socket adapter of the power cord has a replaceable 2-Amp SAG fuse located below the silver tip. To check or replace the fuse, **slowly** and **carefully** unscrew the tip of the plug, making sure the spring and silver tip located inside the plug do not fly out when you remove the cap. Check fuse and replace if necessary.

## TROUBLESHOOTING

**The CRUNCH 217B does not power up when powered from the vehicle.**

- Check all power cord connections.
- Check fuse in lighter socket adapter and replace if necessary.
- Check lighter socket. Clean if dirty.
- Check your vehicle's fuse panel. (Refer to your vehicle's manual.)

**The CRUNCH 217B did not alert when passing an officer.**

- Not all police cars have radar/laser detectors or it may not be in use at that time.

**The CRUNCH 217B shows erratic or frequent alerts.**

- Use one of the city modes.

**The CRUNCH 217B shows partial or no display.**

- Disengage dim mode and set the unit to bright display.

**The CRUNCH 217B alerts weak.**

- Set the unit to highway mode.
- Make sure the unit is level to the road.
- Make sure the radar window and the top laser receiver are not obstructed. Move the CRUNCH 217B if necessary.

# SPECIFICATIONS

## RADAR

Receiver type:	Dual conversion superheterodyne
Antenna type:	Linear polarized, self-contained
Detector type:	Scanning frequency discriminator
Frequency of Operation:	X-Band 10.500 -10.550GHz K-Band 24.050 - 24.250GHz Ka-Band 33.400 - 36.000GHz Safety radar: 24.100 GHz

## LASER

Receiver type:	Pulsed laser signal receiver
Detector type:	Digital signal processor pulse width photo diode detector
Optical sensor:	Dual convex condenser lens

## GENERAL

Temperature range:	-4°F to 140°F (-20°C to 60°C)
Power requirements:	12V to 16V DC, 120 mA, negative ground
Dimensions:	1.30" H x 3.31" W x 4.50" L
Weight:	5.50 ounces

Specifications are typical, individual units may vary. Specifications are subject to change without notice. Performance may vary with driving behaviors and driving environments.